

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/052077

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B7/09 G11B21/10 G11B5/55 G11B5/596

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 367 513 A (BATES KEITH A ET AL) 22 November 1994 (1994-11-22) the whole document	1-18
A	US 4 722 079 A (MATSUMOTO KEIICHI) 26 January 1988 (1988-01-26) cited in the application	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search 13 January 2005	Date of mailing of the international search report 20/01/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Benfield, A

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Information on patent family members

International Application No

PCT/IB2004/052077

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5367513	A	22-11-1994	NONE	
US 4722079	A	26-01-1988	JP 1805869 C	26-11-1993
			JP 5017610 B	09-03-1993
			JP 61039940 A	26-02-1986